



FF/Paramedic Ben Simmons showing the ambulance to some kids at National Night Out.

MENOMONIE FIRE DEPARTMENT 2018

CHIEF

John R. Baus

ADMINISTRATIVE ASSISTANT

Teri Riek

BATTALION CHIEFS

Don Terkelsen

Denny Klass

John Entorf

CAPTAINS

Andy Benrud

Chuck Mensing

Tim Koleski

LIEUTENANTS

Adam Mucks

Michael Christian

Larry Zais

MOTOR/PUMP OPERATORS (MPOs)

Chad Bock

Jon Fisher

Kyle Repaal

Rich Brackett

Juan Gamez

Randy Wood

FIREFIGHTERS/PARAMEDICS/EMTs

Brady Bleskacek

Andy Kissh

Brent Monfort

Matt Poliak

Ben Simmons

Joe Wayne

Travis Nessel

Tim Fasbender

Adam McCulloch

Jon Peterson

Josh Romsos

Corey Steinkraus

Dan Williams

PAID ON CALL FIREFIGHTERS

Scott Barnhart

Sam Danovsky

Todd Glenna

Tony Klatt

Scott Gregory

Karl Palmer

Sean Staidl

Zach Sample

Kollin Stirn

Cody Carlson

Doug Fleming

Alex Beranek

Joe Kunkel

Nick Manor

Sean Schuch

Cameron Zak

Danial Smith

From the Chief

It was another busy year at the MFD. Everybody has been pitching in on so many projects it can be difficult to keep track of everything at times. It is no longer business as usual at the fire department. We are doing things as a regular part of our operations that were never before considered, or even dreamed we would be doing. Fortunately we have a great group of ambitious members willing to take on anything. I will just highlight a few items here; however, please take the time to read the following pages for details on the many things we are working on.

We are now part of the Rescue Task Force. We have worked with local law enforcement to train, and equip our members to respond to active shooter incidents to more aggressively rescue and treat victims of the event.

An apparatus committee designed and managed the production of a new ambulance which we recently took delivery of.

A new rescue truck has also been designed and is now being built that will be purchased by the Rural Fire Association. This has been a big project that will provide a badly needed update to a very significant piece of equipment.

The MFD is designated as one of twenty departments that comprise the State of WI Hazardous Materials Response System. As such, we are required to meet certain standards. This last April we recertified by passing our State validation exercise.

Several department members are part of the Wisconsin Special Rescue Task Force. These members receive invaluable training for statewide response, but also to bring back and train the rest of our members to use in our local area.

Please notice our inspections report, and consider the value of our fire safety inspections. Only one fire this year in an inspected occupancy out of almost 1100 structures inspected.

However, despite the great equipment, extensive training, and high technology, the most important part of our service is the personal care you'll receive from our members.



Ballistic Vests for our medics



Tree stand rescue



Farm equipment fire

Everyone has done a great job this year and we look forward to a busy and safe 2019. As always, please do not hesitate to contact me with any questions, or concerns.

Jack

Jack Baus
Fire Chief

Emergency Operations



In 2018 the Menomonie Fire Department responded to 2773 incidents. These incidents covered a wide variety of emergencies.

Included are:

- Critical medical responses
- Vehicle crashes
- Vehicle fires
- Grass fires
- Structure fires
- Water rescues
- Haz Mat Calls – gas leaks, Carbon Monoxide incidents
- And a wide variety of alarms, elevator rescues etc...



Car Fire
January 9, 2018
I-94 Mile marker 38



Agricultural Sprayer Fire
May 17, 2018
Town of Tainter



Garage Fire
July 19, 2018
City of Menomonie



Mayo One Helicopter Flight Landing Zone
Motorcycle crash
July 30, 2018
I-94 Near the Knapp exit



House Fire
August 7, 2018
Town of Menomonie near Irvington



Two Vehicle Head on Crash
October 7, 2018
Highway 12 near Knapp



Structure Fire
November 7, 2018
Town of Tainter



Semi-Tractor Fire
November 16, 2018
Town of Red Cedar

Don Terkelsen
Battalion Chief

Technical Rescue Trainings

Members of the Menomonie Fire Department train in specific special rescue situations. A few of the unique scenarios performed in 2018 included a tree stand rescue and a confined space pit rescue at UW Stout. The fire department has multiple members trained to the technician level in rescue specialties including: high-angle, confined space, trench, collapse, ice, and swift-water.

Adam Mucks
Lieutenant

UW Stout Confined Space Entry



Members of Menomonie Fire Department make entry to a confined space pit on UW Stout Campus. A mechanical advantage rope system is used to lower rescuers and raise a victim. Air quality monitoring is also in place to confirm rescuer safety.



Fire Department personnel make access to a simulated victim who made access to a confined space and suffered a medical emergency.

Tree Stand Rescue Training



A firefighter makes access to a mannequin in a tree stand to simulate a hunter experiencing a medical emergency. He is placed in a harness and lowered with a rope system.



Hazardous Materials Team Validation

April 13, 2018

The State of Wisconsin Hazardous Materials Response Plan includes twenty teams from across the State. Each team receives funding each year to support its needs such as equipment, and training. However, that funding does not come without the team proving its ability to respond to, and manage hazardous events. Each year there is a different type of evaluation performed to assure compliance and ability. This year consisted of a validation exercise.

On Friday, April 13, 2018 the Menomonie Fire Department demonstrated its hazardous materials response capabilities to evaluators from the State of Wisconsin. The validation exercise consisted of a scenario in which a truck crash resulted in the spilling and mixing of various chemicals further resulting in a plume, or cloud of dangerous gas as well as chemicals leaking into the ground that needed containment.

A response team was dispatched which performed reconnaissance of the spill site, and the driver of the vehicle in the simulated crash was interviewed for information on the spilled chemicals.



Reconnaissance



Victim Interview

After gathering information, a field briefing was conducted to determine an action plan on how to best mitigate the dangerous spill.



Field Briefing



Research

Detailed research was conducted on the chemicals, and the greater dangers created when they mixed, as in the case of this spill.

An entry team, and back-up team were assembled in preparation to access the spill and gather further information and possibly remedy the problem.



Meanwhile, a decontamination line was established as all personnel, and equipment which had any contact with the chemicals would be required to be decontaminated to prevent further danger to the health of responders or the public.

Once research was completed to the point that the responders felt they could safely enter the site, the entry team advanced to the spill and worked to manage the hazard.



Upon successfully mitigating the spill, decontamination of the entry team occurred.



Decontamination of Entry Team



Event Debriefing

A briefing conducted by the State evaluators concluded the event.

Our local commercial and industrial sites, along with an immeasurable amount of known and unknown hazardous materials that pass through our community daily by way of the Interstate highway provide immeasurable dangers.

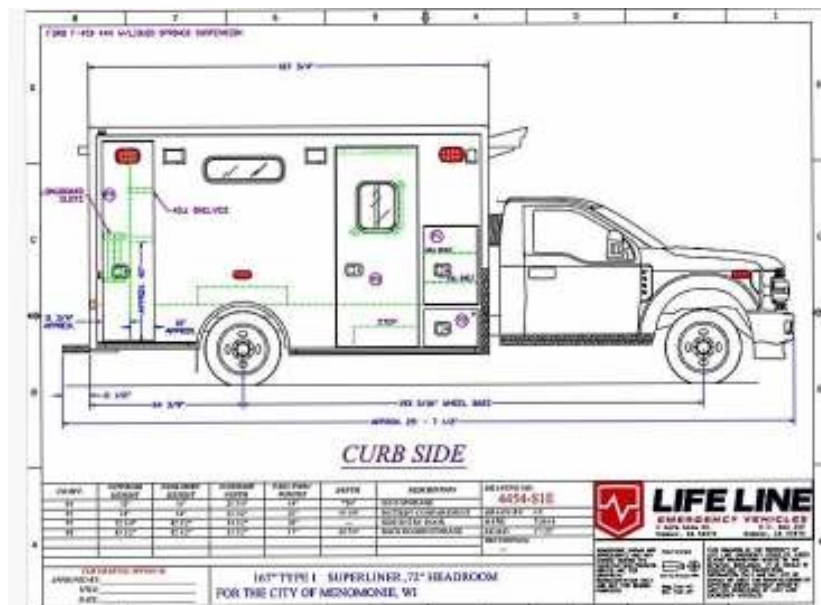
The Menomonie area should rest assured they are protected by a very capable team of responders in the event of a hazardous materials event.

Don Terkelsen
Battalion Chief

Apparatus Replacement/Upgrades

In 2018 Menomonie Fire had several projects that made upgrades to apparatus or replacement of apparatus. The apparatus' that are being replaced are due to age, mileage, and maintenance issues.

In May, three vendors brought ambulances into the department so we could look at the different options that are being built. After looking at these ambulances, a set of specifications were put together and a formal request for bids was sent out. Bids were received from two vendors. Jefferson Fire and Safety submitted the winning bid on a 2019 Ford F450 LifeLine Ambulance for \$252,000 with a scheduled delivery date of January 2019. This ambulance will be the department's third LifeLine ambulance.



In October of 2017 at the Rural Fire Board meeting, discussions began about replacing the 1998 Rescue truck. The board gave the ok to start looking into replacing the truck and getting a rough cost of replacement. Four members of our department went to several area fire departments to look at their current Rescue Trucks that were built by several different companies. Discussions started in February, 2018 with a couple of Wisconsin apparatus builders about prices. Specifications were put together and requests for bids were sent out. A special Rural Fire Board meeting was held at the end of May, 2018. Three bids were received from Wisconsin companies. Marion Body Works from Marion, Wisconsin submitted a bid of \$484,000 and was awarded the contract for our new Rescue truck. The truck is scheduled for completion in June 2019.

Inspections

The Menomonie Fire Department performs fire prevention inspections on all educational, commercial, industrial, manufacturing and multi-unit apartment buildings in our response area. This includes the City of Menomonie, Villages of Knapp and Downsville and Towns of Tainter, Spring Brook, Red Cedar, Lucas, Dunn, Sherman and Weston. All structures mentioned above are inspected twice per year.

Inspection Numbers:

	<u>2018</u>	<u>2017</u>
Total Inspections performed -----	2185	2157
Total hours inspecting -----	603	561
Total violations found -----	396	383
Total violations corrected -----	151	137
Total re-inspections performed -----	9	18
Total notices of violations issued -----	241	231

In 2018 we responded to one fire in an inspected structure.

<u>Date</u>	<u>Address</u>	<u>Business Type</u>	<u>Damage</u>	<u>Cause</u>
11-2-18	2416 Fryklund Dr	Apartment	\$1000	Bathroom fan

Inspections are conducted to assist the business/building owners in the elimination of hazards which could lead to a devastating fire loss.

The photos below show some of the issues we find while inspecting.

Blocked egress paths



Improper use of extension cords



Improper storage of flammable liquids



Blocked electrical panels



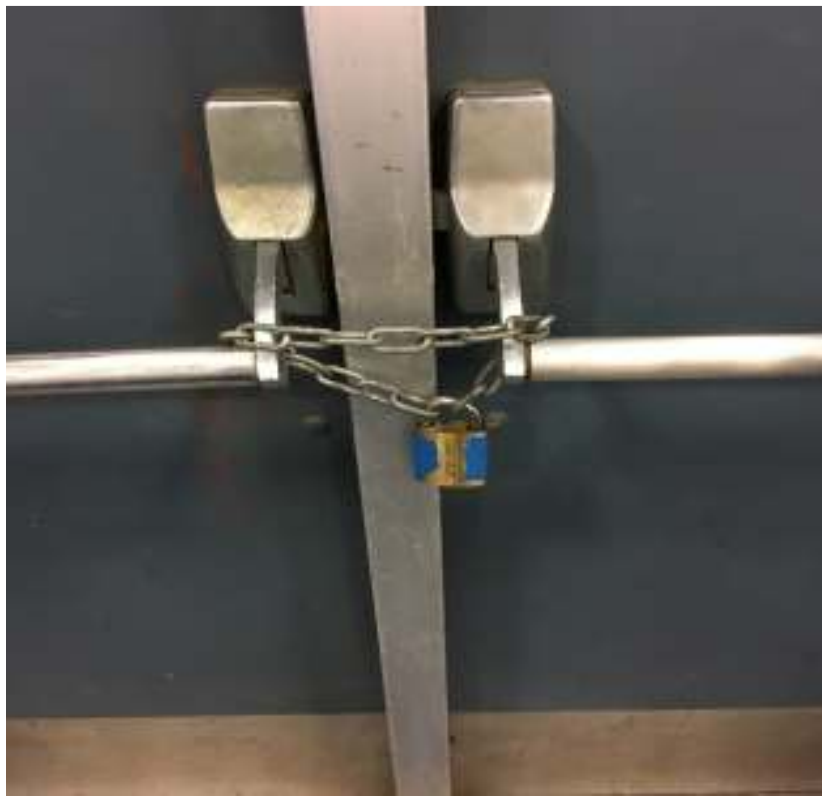
Separation distance from storage to sprinkler heads must be at least 18"



Compressed gas cylinders not stored or secured properly



Chained and padlocked egress doors in an assembly occupancy



Denny Klass
Battalion Chief

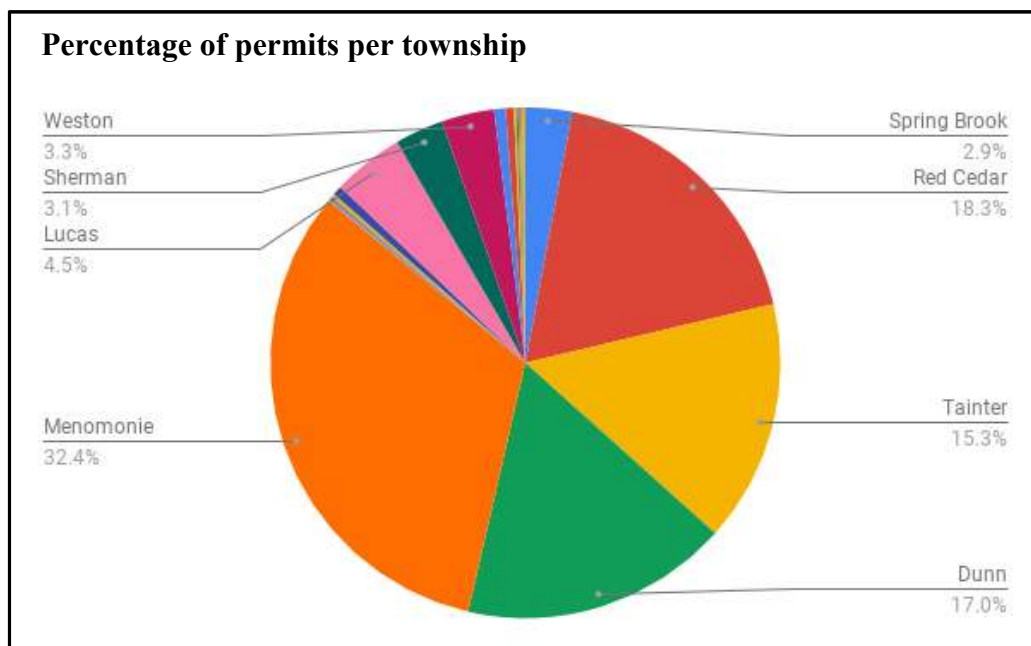
2018 Burning Permits

Menomonie Fire Department is responsible for receiving and granting burning permits for the citizens of Dunn County. Residents of Dunn County are allowed to burn brush, leaves, pine needles, wood that is clean, dry, untreated, and unpainted. All fires must be attended to at all times and they are responsible for any damage that may result from a fire that becomes uncontrolled.

This past year was the first full year that we utilized an online electronic form for receiving and tracking burning permits. Prior to the utilization of this technology, department personnel would receive burning permits via phone calls from individual residents. This resulted in handling multiple calls a day and sometimes as many as 20-30 phone calls in a day. The permits were tracked on separate paper between both fire stations and at the dispatch center which resulted in burning permits being tracked in different locations depending on who, and where the phone call for a burning permit was received.

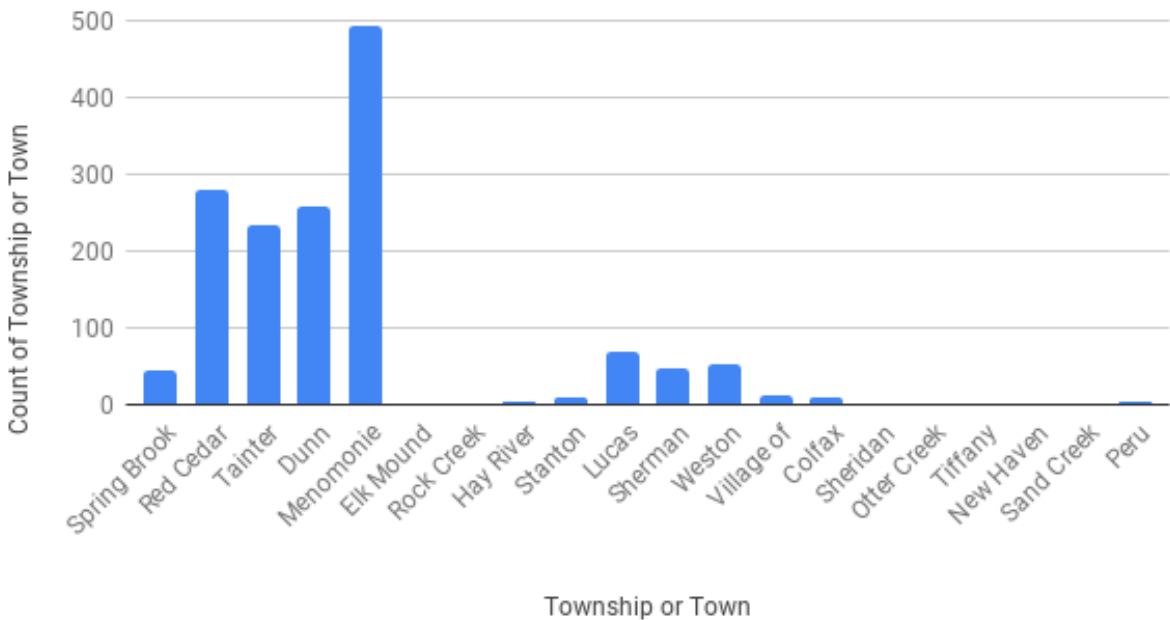
The new electronic form allows residents to fill out a burning permit online without the need to contact the fire station or dispatch center with all entities being able to track and view all burning permits on one electronic spread sheet. The online form is also able to communicate with the residents the regulation of burning and when a burning ban is in place which will not allow them to receive a burning permit. Residents without internet access are still able to contact the fire department via phone but this has greatly reduced the amount of phone calls to the fire department and has allowed all burning permits to be tracked in one location.

In 2018, Menomonie Fire Department received **1,527** burning permits for Dunn County. Below are graphs showing the percentage and amount of burning permits in each township as well as the daily totals during the year. City of Menomonie residents have separate regulations for burning and must present to the fire department for burning permits within the city limits.



2018 Burning Permits

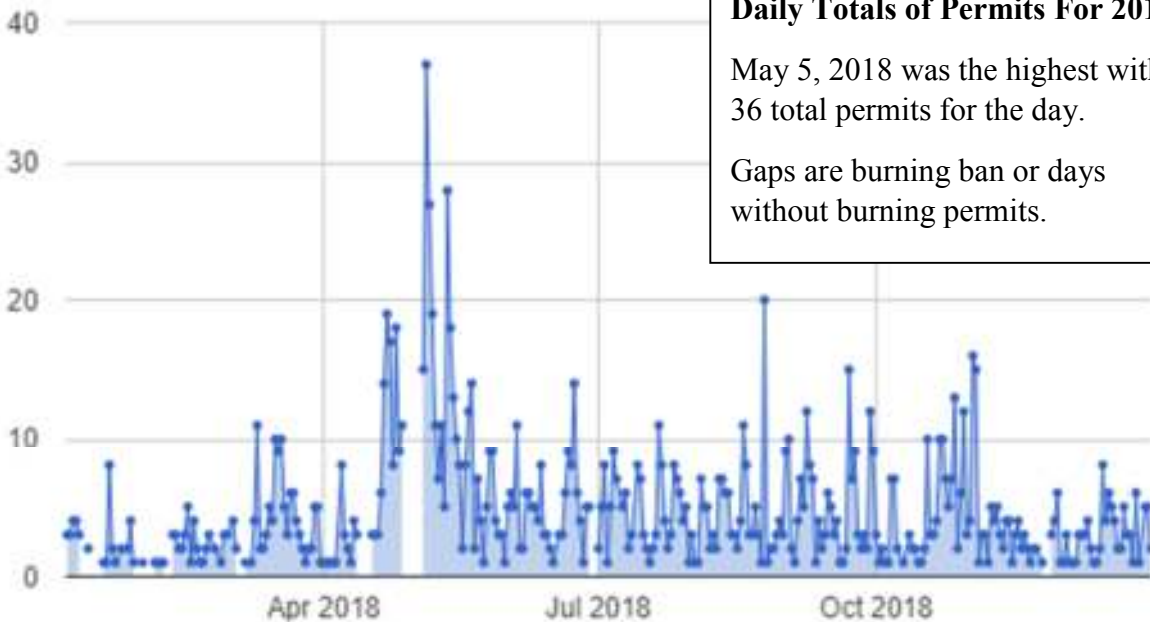
2018 Total Permits Per Township



Daily Totals of Permits For 2018

May 5, 2018 was the highest with 36 total permits for the day.

Gaps are burning ban or days without burning permits.



Michael Christian
Lieutenant

EMS Administration

National Registry and Refreshers (continuing education) Administrative duties;

Throughout the year, personnel conducted hundreds of continuing education hours to fulfill the National Registry of EMT requirements. In 2018, 12 personnel at MFD had their National Registry EMS licensure renewed. Along with the continuing education hours, 15 Medics completed a 48-hour EMT-Paramedic refresher taught by CVTC at Station #2. All of this EMS training helps meet the EMS training requirements mandated by the State of Wisconsin and the National Registry of Emergency Medical Technicians. We are continually looking for ways to improve our EMS training and skills. The required Paramedic refresher allows us to stay current with the latest changes in EMS.



Medical Director

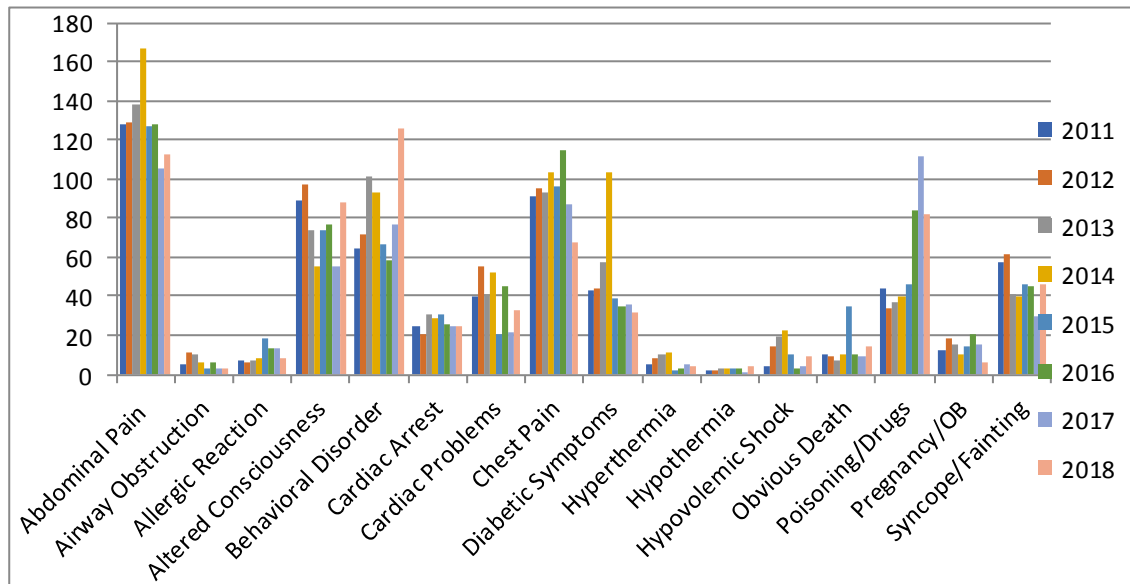
Dr. Nelson is a board-certified emergency room physician at Mayo-Menomonie and Eau Claire and serves as the Medical Director for MFD. He reviews every emergency call the ambulance responds to and provides frequent training for ambulance personnel. His involvement is very much appreciated by the MFD staff.



Dr. Drew Nelson

EMS AT A GLANCE

Provider Impressions



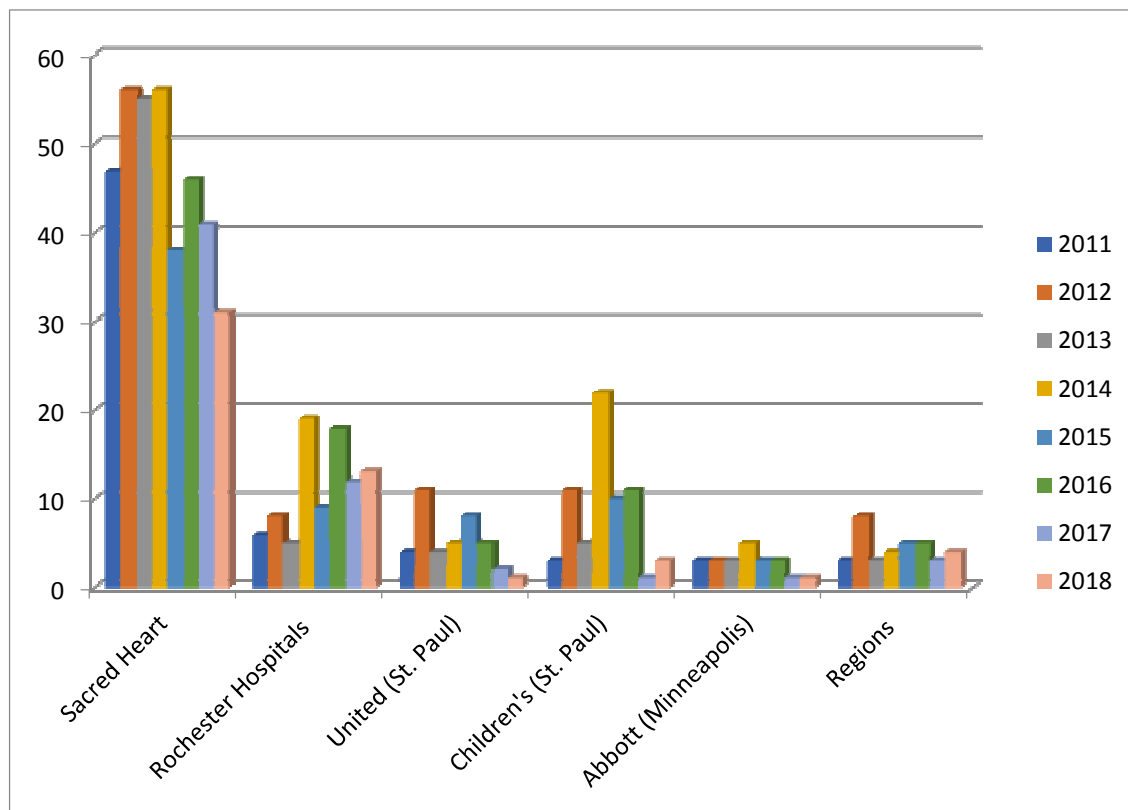
Provider Impressions

* In 2018, MFD had 401 traumatic injuries. (Not in graph)

* Many patients had unspecified injuries or illnesses and are not included in this graph.



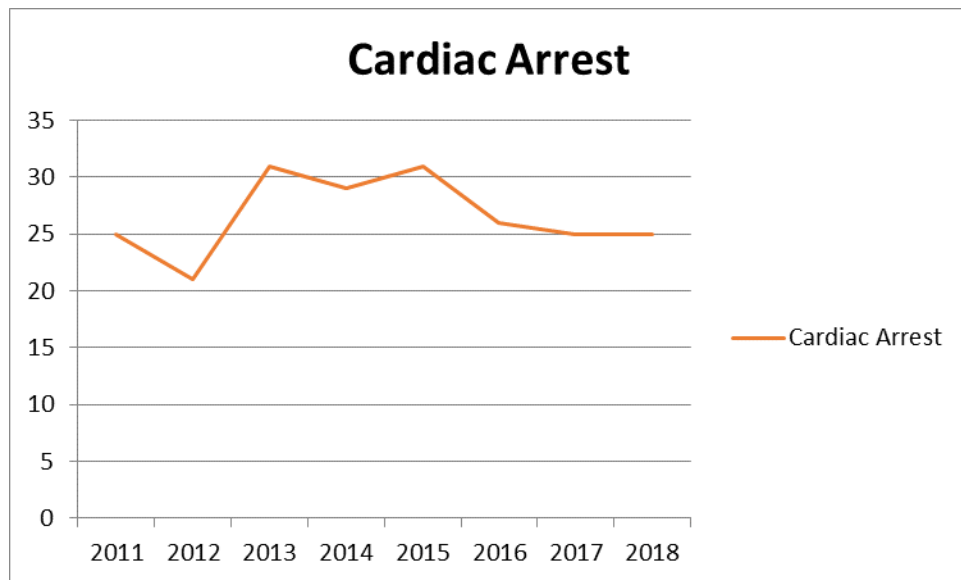
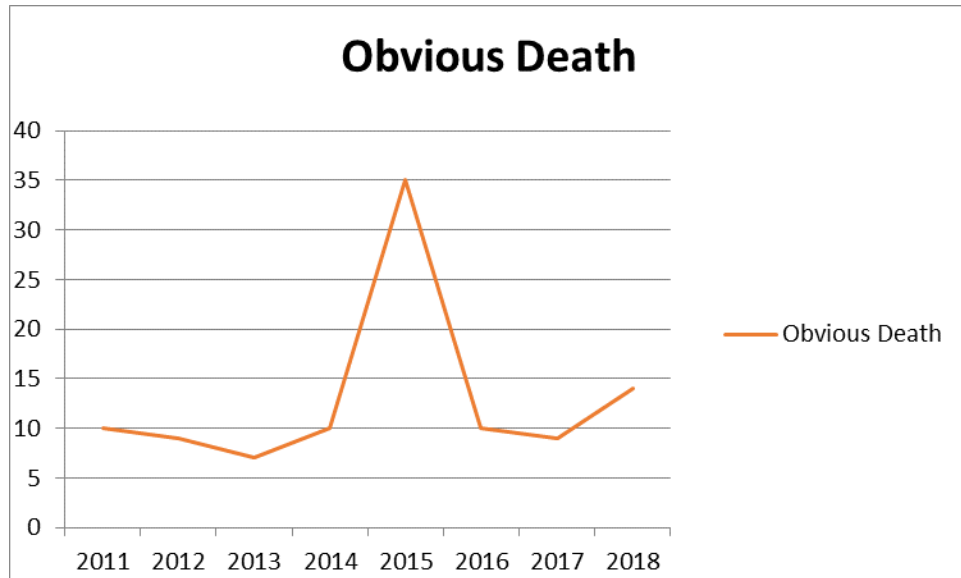
Hospital Destinations



*The most frequent hospital that MFD transported patients to was Mayo-Menomonie. In 2018, the number of patients transported to Mayo-Menomonie was 1149.

With the higher level of skills that the Paramedics have, it is now possible to stabilize and transport patients to hospitals in Eau Claire for specialty care such as the cardiac cath lab or regional trauma center. MFD transported 312 patients to Mayo-Eau Claire in 2018 and this was the second highest hospital destination for MFD. This is due to Mayo-Eau Claire being the highest rated trauma center (Level II) in the area and having specialized cardiac capabilities.

We also transport less frequently to some other area hospitals that are not listed in the graph. Many times, patients decide they do not wish to be transported by ambulance and they refuse transport. Each year approximately 20% of all patients request not to be transported.



Rescue Task Force (RTF)

MFD recently teamed up with law enforcement to establish a rescue task force. This team is used in active shooter situations, whether it's a school or business. Trained medics are paired up with law enforcement officers to enter into the "warm zone" to treat and remove injured people to safe environments. The purchase of the needed ballistic vests and helmets was made possible by two donations from local businesses.



EMS

Interestingly, every day of the week received approximately the same volume of ambulance calls. All days of the week averaged between 12-15% of the total call volume with Friday being slightly the busiest. Out of all patients, 65% were above the age of 50 years old, and 7% of the patients were under the age of 18.

At MFD, we look forward to providing high quality patient care this year and in the future!

Andy Benrud
Captain

EMS Supplies

This summary of the EMS supply division discusses the major vendors used, the approximate amount spent, and some service upgrades that were added for 2018, at the Menomonie Fire Department.

The major vendors used when purchasing EMS supplies are Emergency Medical Products (EMP), Mayo Health Systems-Menomonie (Materials Management and Pharmacy), Zoll Medical, Arrow, Life Assist, and Mississippi Welders. Mayo-Menomonie is one of our largest vendors used combining Materials Management and Pharmacy (MAYO) at \$3,584.06; this includes intravenous (I.V.) solutions, I.V. sets, glucometer test strips, many medications, and some small items. Emergency Medical Products came in at \$23,512.91. EMP supplies everything from airways to trauma pads. Zoll Medical is where we purchased primarily cardiac defibrillator supplies for \$5,778.26. Life Assist is another major vendor used for video intubation at \$3,275.98. Mississippi Welders is the oxygen supplier for MFD at \$498.08. We purchased intra osseous needles for initiating difficult intravenous lines from Arrow at a cost of \$4,488.22. We also purchased medications from Sacred Heart Hospital, \$1,975.16. The total spent on EMS supplies was \$52,653.38.

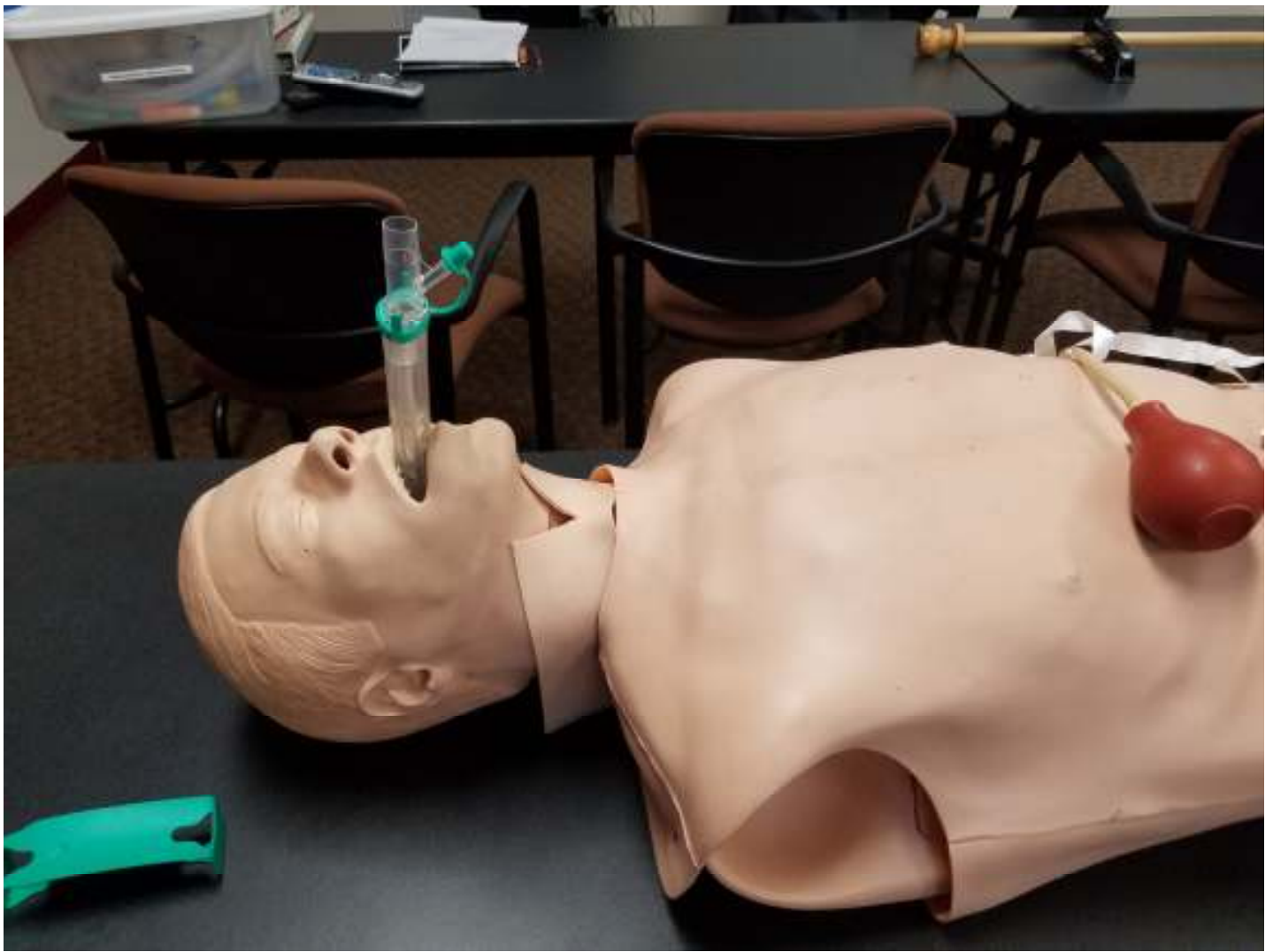
We now order some medications from Sacred Heart Hospital. We purchase Fentanyl, Ketamine, Midazolam, and Ketorolac from Sacred Heart. This is a new vender for The Menomonie Fire Department.

We were able to upgrade the airways that we use on calls. They are called I-gels. These are the newest airways for pre hospital medical emergencies.

Chuck Mensing
Captain



I-Gels in MFD's EMS bags. These are the latest in pre hospital airway care.



This is how we train with the new I-Gels. We carry many sizes of airways for all sizes of people.

Public Education / Service

Community Safety

2018 saw the Menomonie Fire Department participating in numerous events throughout our community. The various events and services we did over the year include: helping the Special Olympics with the Polar Plunge by keeping the plungers safe with our crews in ice rescue suits, did several events with the Thursday Night Thrill Seekers, the high school's prom crash scenario, and the National Night Out event, to name a few. We try to be involved with as many events as we can throughout the year. We also provided numerous and various safety classes this past year.



2018 Prom Crash Scenario



Working together to keep the kids safe



National Night Out



Meeting the community at National Night Out

The fire department incurred five lost time injuries that were minor in nature. We strive to be as safe as possible; however, at times we cannot control the environment, or mother nature. Slips and falls continue to lead the injuries to the department.

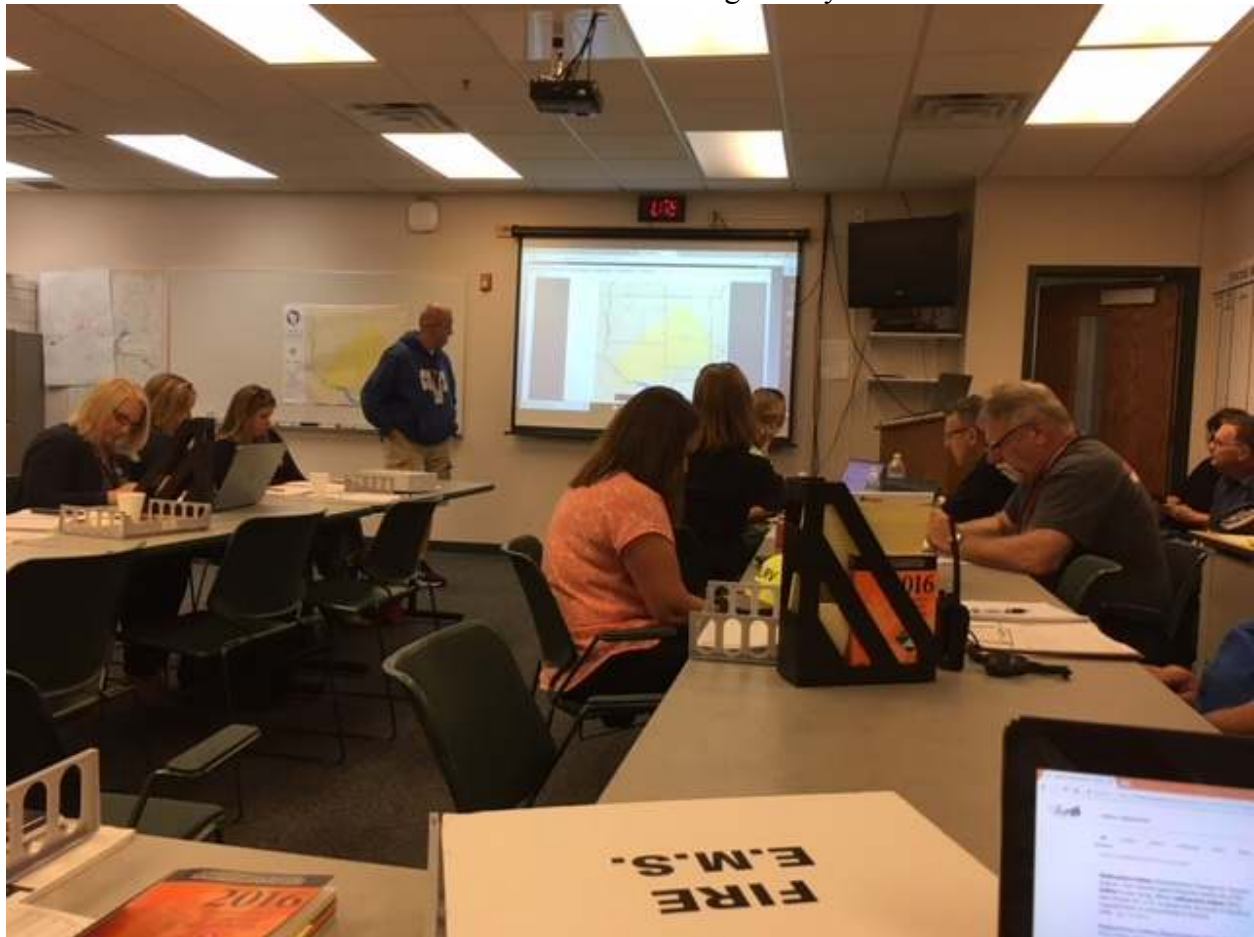
This past year we did assist neighboring departments with cause and origin investigations as requested.

John Entorf
Battalion Chief

Training

In 2018, 200 classes were taught by instructors, officers, and fire fighters to both full time and paid on call members totaling 4,085 hours of instruction. The classes covered a wide variety of topics related to firefighting, emergency medical services, rescue and hazardous materials. A few examples of the training conducted or attended follow.

A tabletop exercise at the Dunn County Emergency Operations Center simulating a nuclear incident at the Red Wing facility



Farm Mapper hazards training at Styer Farms



Hazardous Materials Recertification training



Forcible entry and ladder rescue training provided by Paul Conway of Milwaukee





Swift water rescue training for Wisconsin Task Force 1 members at Volk Field



Denny Klass
Battalion Chief



The Menomonie Fire Department members of the Wisconsin Task Force 1, Urban Search and Rescue were busy this year.

Not only did they attend four quarterly training events, but they were activated for the flooding in south central Wisconsin. Member Lt. Adam Mucks was stationed at Volk Field, as he was in the second group to be deployed if the event escalated.



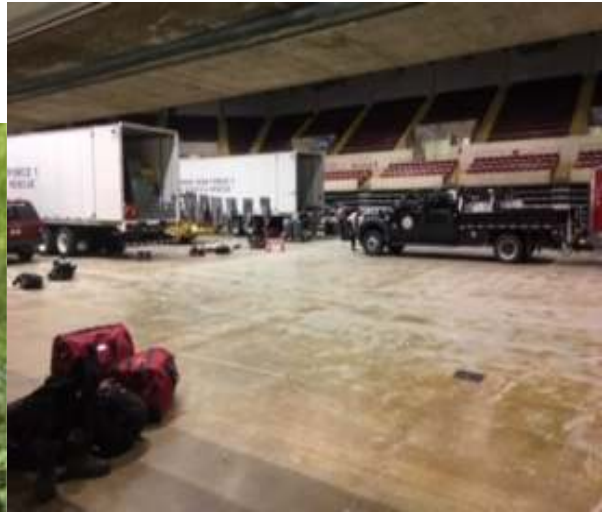
South Central WI flooding deployment



Memo sent from the Task Force Leader regarding South Central Flooding

SITUATION REPORT	INCIDENT MULTI REGION FLOODING CRAWFORD COUNTY	OPERATIONAL PERIOD (1) DATES: 9-4 TO 9-5 2018 TIMES: 1430(9-4)-0700(9-5)	REPORTING UNIT WI-TF1	FORM - 01/1999 209
<p>The following reports on activities for the period shown:</p> <ul style="list-style-type: none">• CURRENT SITUATION WI-TF1 HAS 21 PERSONNEL STAGED AT REACT TO BE DEPLOYED FOR FLOOD/SWIFT WATER INCIDENTS IN THE STATE. THE TF CONSISTS OF 2 RESCUE SQUADS WITH 8 BOATS. EACH SQUAD CONSISTS OF A RESCUE TEAM MANAGER, RESCUE SQUAD OFFICER AND 7 RESCUE SPECIALIST CROSS TRAINED TO INCLUDE HAZ MAT, TECHNICAL SEARCH, MEDICAL, AND DISASTER LOGISTICS. ALSO ON LOCATION IS 1 TASK FORCE LEADER IN SUPPORT OF THE SQUADS. A COMMS MANAGER AND LOGISTICS MANAGER ARE STAGED AT REACT AND ARE READY TO SUPPORT MEMBERS DEPLOYED.• CRITICAL ISSUE WATER IS CONTINUING TO RISE IN CERTAIN LOCATIONS. WATER OPERATIONS AT NIGHT MAKE RESCUE AND EVACUATIONS MORE DIFFICULT.• CASUALTY REPORT (Civilian/Federal) Currently N/A• ACCOMPLISHMENT WI-TF1 has mobilized and is staged for any assignments given through the State EOC. TF members are continuing to verify readiness by checking and testing equipment and retraining on various skills.• RESOURCES ASSIGNED 21 personnel, 4 Jon boats, 2 Zodiacs, 2 RDCs, 2 - 40' cargo trailers, 2 vans, 4- F-450's, 1 Comms Trailer and various rescue equipment and logistical supplies.• PLANNED ACTIVITIES (next 24 – 72 hours) Monitor situations throughout the state and preplan travel routes, stage for water rescue assignments. Rehab as needed, Management will plan operational periods based on information from WEM.• ADDITIONAL INFORMATION				

The team also participated in an Operational Readiness Exercise (ORE) that took place in the La Crosse area. The teams Base of Operation (BOO) was located at the La Crosse Civic Center. Deployments of search and rescue took place on and around Grand Dad's Bluff and the Mississippi River.



Members also attended swift water and advance swift water training.



The training took place in Tomah and Black River Falls.



Above, a group of rescuers attempt to cross a river.

2018 was a busy year of very good training.

Tim Koleski
Captain

Information Technology

With the new year brought a new emergency medical reporting program. ImageTrend ePCR Solutions are used in every state in the U.S. and have processed more than 180 million prehospital patient care records. More importantly, the data and reporting are used daily to make clinical decisions that improve patient care and availability of services.

This cloud-based program allows the ambulance crew to enter information live when responding to incidents. With this program, after a two-stage quality assurance check, we have the ability to download the report automatically to the Wisconsin Ambulance Report Data System (WARDS).

The screenshot displays the ImageTrend ePCR software interface. The browser address bar shows the URL: <https://menomonie.imagetrendelite.com/Elite/Organizationmenomonie/Agencymenomonie/EmrRunform#/Incident2992/Form7>. The interface includes a top navigation bar with buttons for 'Save', 'Print', 'PDF', 'EKG', 'Messages', and 'Close'. A left sidebar contains a 'Find field...' search bar and a list of expandable sections: 'Incident Times', 'Response', 'Patient Encounter', 'Transport', 'Billing', and 'Signatures'. The main content area is titled 'Times' and contains a list of incident-related fields, each with a date/time input field and a status indicator (red exclamation mark or green checkmark). The fields are: Incident Number, Dispatch Notified Date/Time, Unit Notified by Dispatch Date/Time, Unit En Route Date/Time, Unit Canceled Date/Time, Unit Arrived on Scene Date/Time, Arrived at Patient Date/Time, Unit Left Scene Date/Time, Patient Arrived at Destination Date/Time, Destination Patient Transfer of Care Date/Time, and Unit Back in Service Date/Time. The bottom status bar shows 'No Patient Name Entered', a '20 Validation' counter, a 'Menu' icon, and a 'Status: Draft' indicator. The Windows taskbar at the bottom shows various application icons, including Internet Explorer, File Explorer, and Word.

Tim Koleski
Captain

Facilities

Many projects were completed this past year to improve and maintain our facilities. We replaced the flooring and carpet in the kitchen day room area of Station #1. The flooring was worn out and peeling up so we found some discounted flooring that was returned from a job site and FF Bock installed it with help from the crew.



We also replaced the apparatus floor lighting at Station #2. It was retro fit with LED bulbs just as we did at Station #1. We also replaced the outside lighting with LED. We had about 64 lights out before we started this project and decided to retro fit to LED rather than install new ballasts. There were also repairs to our radiant tube heaters and garage doors.



JA Electric on the job at Station #2.

We replaced two ceiling fans at Station #2 and installed a new toilet at Station #1 after 43 years of service from the old one. As always, crews try to do most of the upkeep and repairs when we can. We have some very talented members who save the department a lot, in terms of cost, compared to if we hired all outside labor.

John Entorf
Battalion Chief

Personal Protective Equipment (PPE)

In 2018, the Menomonie Fire Department placed 28 new fire helmets into service. We also placed seven new sets of turn out gear into service. We try to follow the NFPA suggested service life for protective gear. This would mean that most gear has a service life of about 10-15 years. The new gear provides better protection and is lighter in weight.





Chuck Mensing
Captain